

12/07/2005 11:39:59

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L1	0	perform\$4 same partial\$4 same de-normaliz\$5 same replieca\$4 same hierarch\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/07 11:45
L2	0	creat\$4 same surrogat\$4 same table\$1 same stor\$4 same sequenc\$4 same integer\$1 same insert\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/07 11:42
L3	28	creat\$4 same quer\$4 same hierarch\$4 same join\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/07 11:43
L4	0	perform\$4 same partial\$4 same (de-normaliz\$5 or denormaliz\$5) same replieca\$4 same hierarch\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/07 11:46
L5	0	L3 and (perform\$4 same partial\$4 same (de-normaliz\$5 or denormaliz\$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/07 11:46



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**creat\* and surrogat\***

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## 1 Information ethics in the design and use of metadata

*Brody, R.;*

Technology and Society Magazine, IEEE , Volume: 22 , Issue: 2 , Summer 2003  
Pages:34 - 39

[\[Abstract\]](#)   [\[PDF Full-Text \(219 KB\)\]](#)   **IEEE JNL**

## 2 Creating accurate multivariate rational interpolation models of microwave circuits by using efficient adaptive sampling to minimize the number of computational electromagnetic analyses

*Lehmensiek, R.; Meyer, P.;*

Microwave Theory and Techniques, IEEE Transactions on , Volume: 49 , Issue: 8 , Aug. 2001  
Pages:1419 - 1430

[Abstract] [PDF Full-Text (312 KB)] IEEE JNL

### 3 Measuring design-level cohesion

*Bieman, J.M.; Byung-Kyoo Kang;*

Software Engineering, IEEE Transactions on , Volume: 24 , Issue: 2 , Feb. 1998  
Pages:111 - 124

[Abstract] [PDF Full-Text (672 KB)] IEEE JNL

#### 4 CAD-model construction based on adaptive radial basis functions interpolation technique

Lamecki, A.; Kozakowski, P.; Mrozowski, M.;

Microwaves, Radar and Wireless Communications, 2004. MIKON-2004. 15th International Conference on , Volume: 3 , 17-19 May 2004  
Pages:799 - 802 Vol.3

[Abstract] [PDF Full-Text (303 KB)] IEEE CNF

## 5 Mobile agent model for transaction processing in distributed objects

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 **Print Format**

*Kaneda, T.; Shiraishi, M.; Enokido, T.; Takizawa, M.;*  
Advanced Information Networking and Applications, 2004. AINA 2004. 18th  
International Conference on , Volume: 1 , 2004  
Pages:506 - 511 Vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(286 KB\)\]](#) [IEEE CNF](#)

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#### **6 Multimode, multiparametric surrogate models for fast design of waveguide components**

*Lamecki, A.; Kozakowski, P.; Mrozowski, M.;*  
Microwave Conference, 2003. 33rd European , Volume: 3 , 7-9 Oct. 2003  
Pages:1369 - 1372 Vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(336 KB\)\]](#) [IEEE CNF](#)

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#### **7 A collaborative learning environment for intellectual teamwork across the curriculum**

*Rogers, E.H.; Geisler, C.;*  
Frontiers in Education Conference, 1997. 27th Annual Conference. 'Teaching and Learning in an Era of Change'. Proceedings. , Volume: 2 , 5-8 Nov. 1997  
Pages:728 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(96 KB\)\]](#) [IEEE CNF](#)

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#### **8 SimWorx: an Ada 95 distributed simulation application framework supporting HLA and DIS**

*Pilloud, E.C.; Kanko, M.A.;*  
Aerospace and Electronics Conference, 1997. NAECON 1997., Proceedings of the IEEE 1997 National , Volume: 2 , 14-17 July 1997  
Pages:732 - 739 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(628 KB\)\]](#) [IEEE CNF](#)

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#### **9 Location-independent access in mobile systems**

*Haas, Z.J.;*  
Communications, 1996. ICC 96, Conference Record, Converging Technologies for Tomorrow's Applications. 1996 IEEE International Conference on , Volume: 1 , 23-27 June 1996  
Pages:255 - 259 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(464 KB\)\]](#) [IEEE CNF](#)

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#### **10 Robotic surrogate: work in progress**

*Rosheim, M.E.;*  
Robotics and Automation, 1996. Proceedings., 1996 IEEE International Conference on , Volume: 1 , 22-28 April 1996  
Pages:399 - 403 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(732 KB\)\]](#) [IEEE CNF](#)

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#### **11 Express and chips: creating a next generation micro array experiment management system**

*Sioson, A.; Watkinson, J.I.; Vasquez-Robinet, C.; Ellis, M.; Shukla, M.; Kumar, D.; Ramakrishnan, N.; Heath, L.S.; Grene, R.; Chevone, B.I.; Kafadar, K.; Watson, L.T.;*  
Parallel and Distributed Processing Symposium, 2003. Proceedings. International , 22-26 April 2003

Pages:8 pp.

[\[Abstract\]](#) [\[PDF Full-Text \(500 KB\)\]](#) [IEEE CNF](#)

**12 How fast is it fast? evaluating fast forward surrogate digital video**  
 Wildemuth, B.M.; Marchionini, G.; Meng Yang; Geisler, G.; Wilkens, T.; Hughes, A.; Gruss, R.;  
 Digital Libraries, 2003. Proceedings. 2003 Joint Conference on , 27-31 May 2003  
 Pages:221 - 230

[\[Abstract\]](#) [\[PDF Full-Text \(246 KB\)\]](#) [IEEE CNF](#)

**13 RR interval time series modeling: the PhysioNet/Computers in Cardiology Challenge 2002**  
 Moody, G.B.;  
 Computers in Cardiology, 2002 , 22-25 Sept. 2002  
 Pages:125 - 128

[\[Abstract\]](#) [\[PDF Full-Text \(457 KB\)\]](#) [IEEE CNF](#)

**14 Information ethics in the design, creation and use of metadata**  
 Brody, R.;  
 Technology and Society, 2002. (ISTAS'02). 2002 International Symposium on , 6-8 June 2002  
 Pages:197 - 201

[\[Abstract\]](#) [\[PDF Full-Text \(362 KB\)\]](#) [IEEE CNF](#)

**15 Management of tactical ad hoc networks with C2 data models**  
 Brand, J.; Hartwig, G.;  
 Military Communications Conference, 2001. MILCOM 2001. Communications for Network-Centric Operations: Creating the Information Force. IEEE , Volume: 2 , 28-31 Oct. 2001  
 Pages:915 - 922

[\[Abstract\]](#) [\[PDF Full-Text \(362 KB\)\]](#) [IEEE CNF](#)

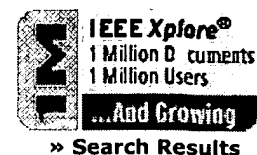
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#### 16 **Determination and use of sector and composite customer damage functions**

*Ali, S.A.; Wacker, G.; Billinton, R.;*

Electrical and Computer Engineering, 1999 IEEE Canadian Conference on , Volume: 3 , 9-12 May 1999

Pages:1483 - 1488 vol.3

[\[Abstract\]](#)   [\[PDF Full-Text \(284 KB\)\]](#)   IEEE CNF

#### 17 **Improving information technology systems through adaptive user interfaces**

*Brill, R.E.; Ragusa, J.M.;*

Management of Engineering and Technology, 1999. Technology and Innovation Management. PICMET '99. Portland International Conference on , Volume: 1 , 25-29 July 1999

Pages:141 vol.1

[\[Abstract\]](#)   [\[PDF Full-Text \(52 KB\)\]](#)   IEEE CNF

#### 18 **RTCASS, a portable, configurable commercial ATE system**

*Mitchell, B.; Geathers, G.;*

AUTOTESTCON '99. IEEE Systems Readiness Technology Conference, 1999. IEEE , 30 Aug.-2 Sept. 1999

Pages:331 - 335

[\[Abstract\]](#)   [\[PDF Full-Text \(384 KB\)\]](#)   IEEE CNF

#### 19 **Data interoperability via surrogate API libraries**

*Nekovei, R.;*

Software Engineering for Parallel and Distributed Systems, 1999. Proceedings. International Symposium on , 17-18 May 1999

Pages:190 - 196

[\[Abstract\]](#)   [\[PDF Full-Text \(56 KB\)\]](#)   IEEE CNF

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**20 Cha tic behavi r in tw hipp campal m dels f epilepsy***Slutzky, M.W.; Mogul, D.J.;*

Engineering in Medicine and Biology Society, 1998. Proceedings of the 20th Annual International Conference of the IEEE , Volume: 4 , 29 Oct.-1 Nov. 1998

Pages:2030 - 2033 vol.4

[\[Abstract\]](#) [\[PDF Full-Text \(300 KB\)\]](#) [IEEE CNF](#)

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**21 Sheath overlap during large scale plasma source ion implantation***Cluggish, B.P.; Munson, C.P.;*

Plasma Science, 1998. 25th Anniversary. IEEE Conference Record - Abstracts. 1998 IEEE International on , 1-4 June 1998

Pages:217

[\[Abstract\]](#) [\[PDF Full-Text \(80 KB\)\]](#) [IEEE CNF](#)

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**22 Correlation integral analysis of epicardial surface potentials derived from isolated rat hearts***Dori, G.; Fishman, S.; Ben-Haim, S.A.;*

Computers in Cardiology 1995 , 10-13 Sept. 1995

Pages:701 - 704

[\[Abstract\]](#) [\[PDF Full-Text \(340 KB\)\]](#) [IEEE CNF](#)

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### 1 [Comparison of access methods for time-evolving data](#)

Betty Salzberg, Vassilis J. Tsotras

June 1999

**ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Full text available: [pdf\(529.53 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), in

This paper compares different indexing techniques proposed for supporting efficient access to temporal data. performance criteria, including the space consumed, update processing, and query time for representative qu hence no assumptions on data distribution or query frequencies are made. When a number of methods have t the methods tha ...

**Keywords:** I/O performance, access methods, structures, temporal databases

### 2 [Query evaluation techniques for large databases](#)

Goetz Graefe

June 1993

**ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available: [pdf\(9.37 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), in

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for ac be required to provide acceptable performance. The advent of object-oriented and extensible database system modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficien records, query-processi ...

**Keywords:** complex query evaluation plans, dynamic query evaluation plans, extensible database systems, i model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash

### 3 [A survey of structured and object-oriented software specification methods and techniques](#)

Roel Wieringa

December 1998

**ACM Computing Surveys (CSUR)**, Volume 30 Issue 4

Full text available: [pdf\(605.26 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), in

This article surveys techniques used in structured and object-oriented software specification methods. The tec specification of external interaction and internal decomposition. The external specification techniques are furth functions, behavior, and communication. After surveying the techniques, we summarize the way they are use indicate ways in w ...

**Keywords:** languages

4 User interface design with matrix algebra

Harold Thimbleby

June 2004

**ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 11 Issue 2

Full text available:  [pdf\(504.47 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index ter](#)

It is usually very hard, both for designers and users, to reason reliably about user interfaces. This article shows that user interfaces are algebraic structures. Users effectively do algebra when they interact, and therefore we can be more confident of usability. Matrix algebra, in particular, is useful for explicit calculation and for proof of various user interface theorems.


**Keywords:** Matrix algebra, feature interaction, usability analysis, user interface design

5 Special issue on persistent object systems: Orthogonally persistent object systems

Malcolm Atkinson, Ronald Morrison

July 1995

**The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 4 Issue 1

Full text available:  [pdf\(5.02 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Persistent Application Systems (PASs) are of increasing social and economic importance. They have the potential to consist of large bodies of data and programs. Typical examples of PASs are CAD/CAM systems, office automation and patient-care support systems in hospitals. Orthogonally persistent object systems are intended to provide maintenance, and operation of ...

**Keywords:** database programming languages, orthogonal persistence, persistent application systems, persistence

6 Circumscription with homomorphisms: solving the equality and counterexample problems

Peter K. Rathmann, Marianne Winslett, Mark Manasse

September 1994

**Journal of the ACM (JACM)**, Volume 41 Issue 5

Full text available:  [pdf\(4.00 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

One important facet of common-sense reasoning is the ability to draw default conclusions about the state of the world given what is known. In the absence of information to the contrary, a deficiency in the circumscriptive approach to common-sense reasoning is producing default conclusions that Tweety ≠ Blotto using ordinary circumscription, or conclude by default that a particular bird flies.

**Keywords:** circumscription, common sense reasoning

7 Fast joins using join indices

Zhe Li, Kenneth A. Ross

April 1999

**The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 8 Issue 1

Full text available:  [pdf\(263.06 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Two new algorithms, "Jive join" and "Slam join," are proposed for computing the join of two relations using a partitioned input relation. Tuple IDs and then processes each partition, while Slam join forms ordered runs of input relations. These algorithms make a single sequential pass through each input relation, in addition to one pass through the join result.

**Keywords:** Decision support systems, Query processing

8 Information systems outsourcing: a survey and analysis of the literature

Jens Dibbern, Tim Goles, Rudy Hirschheim, Bandula Jayatilaka

November 2004

**ACM SIGMIS Database**, Volume 35 Issue 4

Full text available:  [pdf\(1.51 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

In the last fifteen years, academic research on information systems (IS) outsourcing has evolved rapidly. Indeed, there has been scant opportunity for the research community to take a collective breath, and complete a paper seeks to address this need by exploring and synthesizing the academic literature on IS outsourcing. It is highlighted ...




**Keywords:** determinants, literature review, outcomes, outsourcing, relationships, research approaches, theo

9 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collabora**

Full text available:  pdf(4.21 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index ter](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time dia of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the Uni often very complex and do not provide the user with the desired overview of the application. In our experienc trivial commun ...

10 Data page layouts for relational databases on deep memory hierarchies

Anastassia Ailamaki, David J. DeWitt, Mark D. Hill

November 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Iss

Full text available:  pdf(593.86 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Relational database systems have traditionally optimized for I/O performance and organized records sequenti (NSM) (a.k.a., slotted pages). Recent research, however, indicates that cache utilization and performance is b In this paper, we first demonstrate that in-page data placement is the key to high cache performance and tha platforms. Next, we ...

**Keywords:** Cache-conscious database systems, Disk page layout, Relational data placement

11 Moshe: A group membership service for WANs

Idit Keidar, Jeremy Sussman, Keith Marzullo, Danny Dolev

August 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 3

Full text available:  pdf(944.45 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), in

We present Moshe, a novel scalable group membership algorithm built specifically for use in wide area networ designed with three new significant features that are important in this setting: it avoids delivering views that round of messages in the common case; and it employs a client-server design for scalability. Furthermore, Mo clients with fu ...

**Keywords:** Group communication systems, group membership, partitionable group membership, view synch

12 Status report of the graphic standards planning committee

Computer Graphics staff

August 1979 **ACM SIGGRAPH Computer Graphics**, Volume 13 Issue 3


Full text available:  pdf(15.01 MB)

Additional Information: [full citation](#), [references](#), [citations](#)

13 Types and persistence in database programming languages

Malcolm P. Atkinson, O. Peter Buneman

June 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 2

Full text available:  pdf(7.91 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), in

Traditionally, the interface between a programming language and a database has either been through a set o some form of embedding of one language in another. Recently, the necessity of integrating database and pro long-overdue recognition. In response, a number of attempts have been made to construct programming lang management systems. These lang ...

14 Distributed, object-based programming systems

Roger S. Chin, Samuel T. Chanson

March 1991

**ACM Computing Surveys (CSUR)**, Volume 23 Issue 1

Full text available:  pdf(2.97 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)


The development of distributed operating systems and object-based programming languages makes possible of interacting modules, or objects, may execute concurrently on a collection of loosely coupled processors. An methodology for designing and creating a program as a set of autonomous components, whereas a distribute or personal computers ...

**Keywords:** capability scheme, distributed operating systems, error recovery, method invocation, nested tran programming languages, processor allocation, resource management, synchronization, transaction

### 15 Compiler transformations for high-performance computing

David F. Bacon, Susan L. Graham, Oliver J. Sharp

December 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 4

Full text available:  pdf(6.32 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)

In the last three decades a large number of compiler transformations for optimizing programs have been impl the number of instructions executed by the program using transformations based on the analysis of scalar qu optimizations for high-performance superscalar, vector, and parallel processors maximize parallelism and mem the properties o ...

**Keywords:** compilation, dependence analysis, locality, multiprocessors, optimization, parallelism, superscala

### 16 Compactly encoding unstructured inputs with differential compression

Miklos Ajtai, Randal Burns, Ronald Fagin, Darrell D. E. Long, Larry Stockmeyer

May 2002 **Journal of the ACM (JACM)**, Volume 49 Issue 3

Full text available:  pdf(348.32 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)


The subject of this article is *differential compression*, the algorithmic task of finding common strings between version compactly by describing it as a set of changes from its companion. A main goal of this work is to pres fine granularity (the atomic unit of change), (ii) make no assumptions about the format or alignment of input spa ...

**Keywords:** Delta compression, differencing, differential compression

### 17 The family of concurrent logic programming languages

Ehud Shapiro

September 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 3

Full text available:  pdf(9.62 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)

Concurrent logic languages are high-level programming languages for parallel and distributed systems that of programming techniques. Being logic programming languages, they preserve many advantages of the abstrac reading of programs and computations, the convenience of representing data structures with logical terms an amenability to metaprogrammin ...

### 18 A precise definition of basic relational notions and of the relational algebra

Alain Pirotte

September 1982 **ACM SIGMOD Record**, Volume 13 Issue 1

Full text available:  pdf(1.37 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper presents a precise definition of basic relational notions as well as a precise and general definition o method for developing semi-formal definitions of data models. A nearly formal definition of relations with uno described as operating on and producing relations thus defined. The definition of algebraic operations contains,

### 19 Performance of the Firefly RPC

Michael D. Schroeder, Michael Burrows

February 1990 **ACM Transactions on Computer Systems (TOCS)**, Volume 8 Issue 1

Full text available:  pdf(1.35 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)

In this paper we report on the performance of the remote procedure call (RPC) implementation for the Firefly account precisely for all measured latency. From the analysis and measurements, we estimate how much faster The elapsed time for an intermachine call to a remote procedure that accepts no arguments and produces no results has a single 1440-byte ...

## 20 Performance of Firefly RPC

M. Schroeder, M. Burrows

November 1989 **ACM SIGOPS Operating Systems Review , Proceedings of the twelfth ACM symposium**

Full text available:  pdf(1.03 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)

In this paper, we report on the performance of the remote procedure call implementation for the Firefly multi-processor precisely for all measured latency. From the analysis and measurements, we estimate how much faster RPC call elapsed time for an inter-machine call to a remote procedure that accepts no arguments and produces no results that has a ...

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## 21 [Temporal FDs on complex objects](#)

Jef Wijsen

March 1999

**ACM Transactions on Database Systems (TODS)**, Volume 24 Issue 1

Full text available: [pdf\(370.71 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), in

Temporal functional dependencies (TFD) are defined for temporal databases that include object identity. It is semantic difficulties with existing temporal relational data models. Practical applications of TFDs in object base center of this paper. It turns out that the distinction between acyclic and cyclic schemas is significant. For acy

**Keywords:** database constraints, functional dependency, object-identity, temporal databases, time granulari

## 22 [Updating derived relations: detecting irrelevant and autonomously computable updates](#)

José A. Blakeley, Neil Coburn, Per-1Vke Larson

September 1989

**ACM Transactions on Database Systems (TODS)**, Volume 14 Issue 3

Full text available: [pdf\(2.71 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), in

Consider a database containing not only base relations but also stored derived relations (also called materialized updated, it may also be necessary to update some of the derived relations. This paper gives sufficient and ne base relation cannot affect a derived relation (an irrelevant update), and for detecting when a derived relation the derived ...

## 23 [Draft Proposed: American National Standard—Graphical Kernel System](#)

Technical Committee X3H3 - Computer Graphics

February 1984

**ACM SIGGRAPH Computer Graphics**, Volume 18 Issue SI

Full text available: [pdf\(16.07 MB\)](#)

Additional Information: [full citation](#)

## 24 [Extending the database relational model to capture more meaning](#)

E. F. Codd

December 1979

**ACM Transactions on Database Systems (TODS)**, Volume 4 Issue 4

Full text available: [pdf\(2.71 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), in

During the last three or four years several investigators have been exploring "semantic models" for formatted formal way) more of the meaning of the data so that database design can become more systematic and the d Two major thrusts are clear. (1) the search for meaningful units that are as small as possible—atomic semant

**Keyw rds:** conceptual model, conceptual schema, data model, data semantics, database, database schema, representation, relational database, relation, relational model, relational schema, semantic model


**25 Development of an object-oriented DBMS**

David Maier, Jacob Stein, Allen Otis, Alan Purdy

June 1986

**ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems**

11

Full text available:  pdf(1.12 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)


We describe the results of developing the GemStone object-oriented database server, which supports a mode with a summary of the goals and requirements for the system: an extensible data model that captures behavior size of database objects, database amenities (concurrency, transactions, recovery, associative access, author Object-orient ...

**26 NFQL: the natural forms query language**

David W. Embley

June 1989

**ACM Transactions on Database Systems (TODS)**, Volume 14 Issue 2

Full text available:  pdf(3.56 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)


A means by which ordinary forms can be exploited to provide a basis for nonprocedural specification of Inform Query Language (NFQL) is defined. In NFQL data retrieval requests and computation specifications are formulated are desired and update operations are specified by altering data on filled-in forms. The meaning of a form depends on abstract data type ...

**27 On randomization in sequential and distributed algorithms**

Rajiv Gupta, Scott A. Smolka, Shaji Bhaskar

March 1994

**ACM Computing Surveys (CSUR)**, Volume 26 Issue 1

Full text available:  pdf(8.01 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)

Probabilistic, or randomized, algorithms are fast becoming as commonplace as conventional deterministic algorithms. These techniques have been widely used in the design of randomized algorithms. These techniques are illustrated using 12 randomized algorithms spanning a wide range of applications, including: primality testing (a classical problem in number theory), interactive


**Keywords:** Byzantine agreement, CSP, analysis of algorithms, computational complexity, dining philosophers, hashing, interactive probabilistic proof systems, leader election, message routing, nearest-neighbors problem, techniques, randomized or probabilistic algorithms, randomized quicksort, sequential algorithms, transitive to

**28 Programming languages for distributed computing systems**

Henri E. Bal, Jennifer G. Steiner, Andrew S. Tanenbaum

September 1989

**ACM Computing Surveys (CSUR)**, Volume 21 Issue 3

Full text available:  pdf(6.50 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)

When distributed systems first appeared, they were programmed in traditional sequential languages, usually sending and receiving messages. As distributed applications became more commonplace and more sophisticated, Researchers all over the world began designing new programming languages specifically for implementing distributed history, their underlying principles ...

**29 An implementation of GEM: supporting a semantic data model on a relational back-end.**

Shalom Tsur, Carlo Zaniolo

June 1984

**ACM SIGMOD Record , Proceedings of the 1984 ACM SIGMOD international conference**

Full text available:  pdf(1.01 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


This paper presents a simple approach for extending the relational system INGRES into one supporting a semantically user-friendly front-end, supporting the GEM semantic data model and query language under the UNIX time-sharing providing efficient support for database transactions, concurrency control and recovery. GEM extends the relational surrogates, the re ...

**30 Clarification of Fortran standards—second report**

C. Kerpelman

October 1971

**Communications of the ACM**, Volume 14 Issue 10

Full text available:  [pdf\(1.84 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In 1966, after four years of effort, Fortran became the first programming language standardized in the United States. The application of the standard specifications have revealed the need for maintenance of the standards. As the revision of the standard was prepared and this clarification was published in Communications of the ACM in May 1969. preparati ...

**Keywords:** American National Standard, Basic Fortran, Fortran, language standard clarification, language standardization, language standard specification, programming language, standardization, standardization committee

### 31 Development of an APL standard

A. D. Falkoff, D. L. Orth

May 1979

**ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL:**

Full text available:  [pdf\(3.83 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)

Following an extended period of development, with more than half a dozen iterations, a standard for APL was developed. We offer some highlights of our experience in this development process, as well as an appendix containing the effort should get under way in the wider APL community, this experience and its work product may perhaps be of some help to those who are interested in this effort.

### 32 Functional Specifications for Typewriter-Like Time-Sharing Terminals

T. A. Dolotta

January 1970 **ACM Computing Surveys (CSUR)**, Volume 2 Issue 1

Full text available:  [pdf\(2.45 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

### 33 Status report of the graphic standards planning committee of ACM/SIGGRAPH: State-of-the-art of graphics

Computer Graphics staff

September 1977 **ACM SIGGRAPH Computer Graphics**, Volume 11 Issue 3

Full text available:  [pdf\(9.03 MB\)](#)

Additional Information: [full citation](#), [references](#)

### 34 Explanation-based learning: a survey of programs and perspectives

Thomas Elman

June 1989

**ACM Computing Surveys (CSUR)**, Volume 21 Issue 2

Full text available:  [pdf\(6.15 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)

Explanation-based learning (EBL) is a technique by which an intelligent system can learn by observing examples and creating justified generalizations from single training instances. They are also distinguished by their reliance on domain knowledge. Although EBL is usually viewed as a method for performing generalization, it can be viewed in other ways as well. It performs functions such as...

### 35 A Sampler of Formal Definitions

Michael Marcotty, Henry Ledgard, Gregor V. Bochmann

June 1976 **ACM Computing Surveys (CSUR)**, Volume 8 Issue 2

Full text available:  [pdf\(4.56 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

### 36 Compiling nested data-parallel programs for shared-memory multiprocessors

Siddhartha Chatterjee

July 1993 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 15 Issue 3

Full text available:  [pdf\(4.17 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

**Keywords:** compilers, data parallelism, shared-memory multiprocessors

37 Speeding up construction of PMR quadtree-based spatial indexes

Gisli R. Hjaltason, Hanan Samet

October 2002

**The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Iss

Full text available:  [pdf\(355.72 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Spatial indexes, such as those based on the quadtree, are important in spatial databases for efficient execution when the queries involve spatial joins. In this paper we present a number of techniques for speeding up the construction of the PMR quadtree, which can index arbitrary spatial data. We assume a quadtree implementation representation ...

**Keywords:** Bulk-loading, I/O, Spatial indexing

38

External memory algorithms and data structures: dealing with

# massive data

Jeffrey Scott Vitter

June 2001

**ACM Computing Surveys (CSUR)**, Volume 33 Issue 2

Full text available:  [pdf\(828.46 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The gap between fast internal memory and slower external memory (such as disks) can be a major performance bottleneck. The design and analysis of external memory (or EM) algorithms and data structures, where the goal is to explore and consider a variety of ...

**Keywords:** B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, online, out-of-core, secondary storage, sorting

39 The Vienna Definition Language

Peter Wegner

January 1972

**ACM Computing Surveys (CSUR)**, Volume 4 Issue 1

Full text available:  [pdf\(3.89 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

40 The design and implementation of INGRES

Michael Stonebraker, Gerald Held, Eugene Wong, Peter Kreps

September 1976

**ACM Transactions on Database Systems (TODS)**, Volume 1 Issue 3

Full text available:  [pdf\(2.67 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)

The currently operational (March 1976) version of the INGRES database management system is described. The system supports two high level nonprocedural data sublanguages, and runs as a collection of user processes on top of a Corporation PDP 11/40, 11/45, and 11/70 computers. Emphasis is on the design decisions and tradeoffs related to embedding one command ...

**Keywords:** concurrency, data integrity, data organization, data sublanguage, database optimization, nonprocedural language, relational database